1. What are the 4-section objectives?

2. Define Period:

3. Define Group or Family

4. What do elements in the same family or group have in common?

5. Define periodic law (p77):

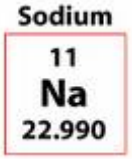
6. Complete the chart below (previous notes)

Orbital	Max e^-
s	
p	
d	
f	

7. Use a periodic table and color it similar to figure 3-11
8. On page 82, define atomic number, mass number

9. For a regular atom, if the # of protons equals the # of electron, then what should be the over-all electrical charge of an atom?

10. In the symbol below, 11 means _____ and 22.990 means _____



11. Complete the chart below

Name	Symbol	Group	atomic #	Protons	Mass #	Neutrons	e^-
Hydrogen							
	Li						
	Na						
	K						
Rubidium							
Cesium							
	Fr						

12. Complete the chart below

Name	Symbol	Group	atomic #	Protons	Mass #	Neutrons	e^-
	Be						
	Mg						
	Ca						
	Sr						
Barium							
Radium							

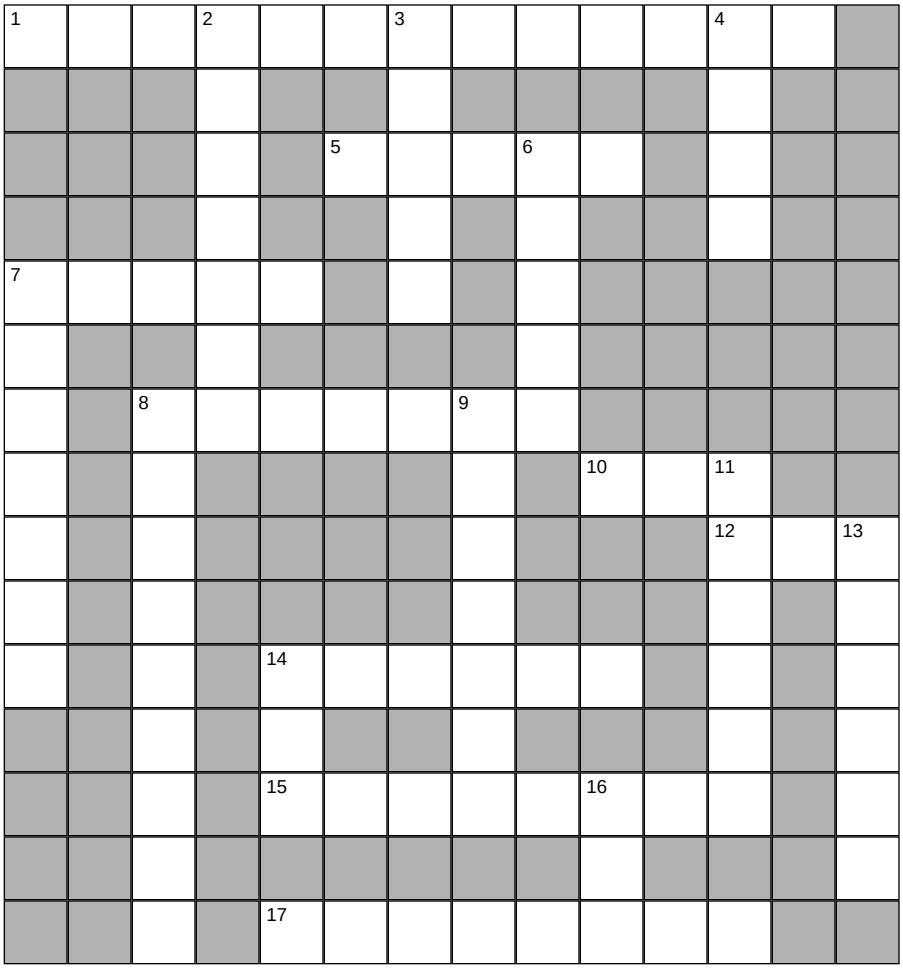
13. Complete the chart below

Name	Symbol	Group	atomic #	Protons	Mass #	Neutrons	e^-
	F						
	Cl						
Bromine							
	I						
Astatine							

14. Complete the chart below

Name	Symbol	Group	atomic #	Protons	Mass #	Neutrons	e^-
Carbon							
	N						
Oxygen							

Crossword: Elements



Across

1. List of all of the elements in columns and rows (two words)

5. Type of elements; gold is an example.

7. Its symbol is B.

8. Mass divided by volume

10. Helium is a noble _____ .

12. Opposite of *no*

14. Group of elements in the same column

15. Type of element with properties that are different from a metal

17. Its symbol is Pt.

Down

2. Deuterium is an _____ of hydrogen.

3. Does not ordinarily react.

4. Its symbol is Pb.

6. A mixture of two or more metals

7. Its symbol is Br.

8. An isotope of hydrogen with one neutron

9. An isotope of hydrogen with two neutrons

11. Abbreviation for element's name

13. Its symbol is S.

14. Enjoyable

16. Its symbol is Sn.

Name Date Period

Chapter 3
Workbook Activity
13

Matter: Terms Review

Part A

Directions: Match each term in Column A with its meaning in Column B. Write the correct letter on the line.

Column A		Column B
_____	**1.** molecule	**a.** One of 92 natural substances that are the basic building blocks of matter
_____	**2.** atom	**b.** Equal to the number of protons plus the number of neutrons in an atom
_____	**3.** element	**c.** Very hot gas made of charged particles
_____	**4.** electron	**d.** A particle found in the nucleus of an atom
_____	**5.** neutron	**e.** A particle with a negative charge
_____	**6.** nucleus	**f.** The smallest particle of a compound; made of one or more atoms
_____	**7.** mass number	**g.** The building block of matter
_____	**8.** plasma	

Part B

Directions: Unscramble the word or words in parentheses to complete each sentence below.

9. An _____ is a number that is equal to the number of protons in an atom.
(mactoi murben)

10. A _____ is a substance made of two or more elements combined chemically.
(modoncup)

11. A _____ is a particle found in the nucleus of an atom.
(troonp)

12. The mass of an element is related to its _____ .
(sams murben)

Name Date Period

Chapter 4
Workbook Activity
16

Words From Chemical Symbols

Directions: Read the clue in Column A. You can find the answer from the elements in Column B. In Column C, write the symbols for the elements in Column B. The word you form should be the correct answer for the clue. The first one is done for you.

	A	B	C
1.	A farm animal	cobalt-tungsten	CoW
2.	A person who doesn't tell the truth	lithium-argon	
3.	The opposite of *lose*	tungsten-iodine-nitrogen	
4.	A building material	bromine-iodine-carbon-potassium	
5.	Found on a door	potassium-nitrogen-oxygen-boron	
6.	Used to write on a blackboard	carbon-hydrogen-aluminum-potassium	
7.	A dog's sound	boron-argon-potassium	
8.	It's 150 million km away	sulfur-uranium-nitrogen	
9.	A source of energy	cobalt-aluminum	
10.	A funny person	chlorine-oxygen-tungsten-nitrogen	
11.	Used in hockey	plutonium-carbon-potassium	
12.	A cow's offspring	carbon-aluminum-fluorine	
13.	A form of money	cobalt-iodine-nitrogen	
14.	Show of affection	potassium-iodine-sulfur-sulfur	
15.	Another word for *ill*	silicon-carbon-potassium	
16.	The saint who visits on Christmas Eve	nickel-carbon-potassium	
17.	A form of transportation	calcium-boron	
18.	To make better	helium-aluminum	
19.	King of the beasts	lithium-oxygen-nitrogen	
20.	A form of precipitation	radium-iodine-nitrogen	